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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/018,503	04/04/2002	Timo Vitikainen	4925-190PUS	2657

7590 04/25/2006  
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EXAMINER

SHIFERAW, ELENI A

ART UNIT	PAPER NUMBER
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2136

DATE MAILED: 04/25/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

10/018,503

Applicant(s)

VITIKAINEN, TIMO

Examiner

Eleni A. Shiferaw

Art Unit

2136

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 13 February 2006.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-43 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-43 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date 01/26/2006.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_.

## **DETAILED ACTION**

### ***Continued Examination Under 37 CFR 1.114***

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 02/13/2006 has been entered.
2. Claims 1-43 are presented for examination.

### ***Claim Objections***

3. Claims 1, 3, 5, 6, 8, 11, 12, 14, 15, 18, 21, 23-26, and 34-39 are objected to because of the following informalities: the abbreviations "VAS", "IMSI", "MSISDN", "RADIUS", "GGSN" used in the claims has no well-recognized meaning in the field of information processing and leaves the reader in doubt as to the meaning of the technical features to which it refers, thereby rendering the definition of the subject-matter of said claims unclear. Appropriate correction is required.

### ***Claim Rejections - 35 USC § 103***

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person

having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 1-43 are rejected under 35 U.S.C. 103(a) as being unpatentable over JP 09-114891 to Igarashi in view of "Sure Identification of individual terminals in terms of their identification numbers and with the aid of authentication circuits" to H. Eda et al., April 5, 1999.

Regarding claims 1, 10, and 16, Igarashi discloses an authentication method/system for identifying a subscriber of a first network in a second network being an Internet Protocol (IP) network, comprising:

a) a gateway device comprising allocation means for allocating an IP address of said second network to said subscriber (0067-0073; *accounting/charging proxy for allocating an IP address of the second network to a subscriber*), and authentication client means for generating an information about a mapping between said IP address of said second network and a subscriber identity (0056, and 0067-0073; *generating information about the relationships between the IP address and a user's ID and other user information like credit card information*), and for transmitting said mapping information to said second network (0073; transmitting the mapping information); and

c) wherein said authentication server is a server for a VAS platform provided in said second network, wherein said VAS platform is adapted to identify said subscriber based on said mapping information (0056-0063 and 0075);

and wherein said authentication client means is a RADIUS client (abstract, 0023-0024; *remote access request authentication*).

Igarashi discloses mapping IP information of the second network and subscriber identity (user's ID and other user's information) to perform charging via Gateway server. Igarashi fails to explicitly disclose the subscriber identity being IMSI as stated in the Applicant's disclosure.

However H. Eda et al., discloses I-mode service in which the identification or proper number, that reads on IMSI in the preset invention, is provided to the service provider for **charging** (see, page 2 of note 2 of applicant submitted English translation reference); and

b) an authentication server provided in said second network and adapted to log and maintain said mapping information (see pages 1-3 of English translated reference; *identification or proper numbers of the users are stored in a server*).

Therefore it would have been obvious to one having ordinary skill in the art at the time of the invention was made to modify the teachings of IMSI of H. Eda et al. within the system of Igarashi because they are analogues in service charging. One would have been motivated to do so because it would allow performing a proper charging and authentication and providing variety of services to subscribers efficiently.

As per claim 2, both Igarashi and H. Eda et al. teach all the subject matter as described above. An authentication method/system/device, wherein said mapping information is transmitted to said second network, when said mapping between said address in said second network and the subscriber identity has changed (Igarashi 0107, H. Eda et al. note 2).

As per claims 3, 14, 18, and 37-39, Igarashi and H. Eda et al. teach all the subject matter as described above. In addition H. Eda et al. teaches an authentication method/system/device,

Art Unit: 2136

wherein said subscriber identity is at least one of an IMSI and an MSISDN of the subscriber (note 2; *identification or proper number/IMSI*).

As per claims 4, 19, and 20, Igarashi and H. Eda et al. teach all the subject matter as described above. In addition Igarashi teaches an authentication method/system/device, wherein said mapping information is transmitted in an access request message (abstract; *access request to the information providers*).

As per claim 5, Igarashi and H. Eda et al. teach all the subject matter as described above. In addition Igarashi teaches an authentication method/system/device, wherein said request access message is a RADIUS access request message (abstract, 0023-0024; *remote access request authentication*).

As per claim 6, Igarashi and H. Eda et al. teach all the subject matter as described above. In addition Igarashi teaches an authentication method/system/device, wherein said authentication server functionality is included in the VAS platform (0056-0063 and 0075).

As per claim 7, Igarashi and H. Eda et al. teach all the subject matter as described above. In addition both teach an authentication method/system/device, wherein said authentication server functionality is provided by a dedicated authentication server (Igarashi 0067-0073 and H. Eda et al. note 2).

Art Unit: 2136

As per claims 8, and 21-26, Igarashi and H. Eda et al. teach all the subject matter as described above. In addition H. Eda et al. teach an authentication method/system/device, wherein said mapping information is generated by authentication client functionality in a GGSN (see, pages 1-3 of the translation).

As per claims 9 and 27-28, Igarashi and H. Eda et al. teach all the subject matter as described above. In addition H. Eda et al. teaches an authentication method/system/device, wherein said mapping information is used for at least one of a service specific charging and addressing of mobile terminals (see, pages 1-3 of the translation).

As per claim 11, Igarashi and H. Eda et al. teach all the subject matter as described above. In addition both teaches an authentication method/system/device, wherein said gateway device is a GGSN (Igarashi 0019 and H. Eda et al. pages 1-2).

As per claims 12 and 34, Igarashi and H. Eda et al. teach all the subject matter as described above. In addition Igarashi teaches an authentication method/system/device, wherein said authentication client means is a RADIUS client (abstract, 0023-0024; *remote access request authentication*).

As per claims 13, 35, and 36, Igarashi and H. Eda et al. teach all the subject matter as described above. In addition Igarashi teaches an authentication method/system/device, wherein said server is a RADIUS server (abstract, 0023-0024; *remote access request authentication*).

As per claims 15 and 40-43, Igarashi and H. Eda et al. teach all the subject matter as described above. In addition Igarashi teaches an authentication method/system/device, wherein said authentication client means is arranged to transmit said mapping information in an access request message to said authentication server (0056-0063).

As per claim 17, Igarashi and H. Eda et al. teach all the subject matter as described above. In addition Igarashi teaches an authentication method/system/device, wherein said authentication client means is arranged to transmit said mapping information in an access request message (0056-0063).

### *Conclusion*

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Rai et al. USPN 6,377,982 B1 discloses a method of an accounting system in a wireless network and RADIUS proxy.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eleni A. Shiferaw whose telephone number is 571-272-3867. The examiner can normally be reached on Mon-Fri 8:00am-5:00pm.

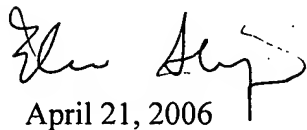
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz R. Sheikh can be reached on 571-272-3795. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.



Art Unit: 2136

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

E.S.

  
April 21, 2006

CHRISTOPHER REVAK  
PRIMARY EXAMINER  
